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1 Fast detection of communication patterns in distributed executions 

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 Porting RTOS device drivers to embedded Linux 

Bill Weinberg

October 2004 **Linux Journal**, Volume 2004 Issue 126

Full text available:  html(22.60 KB) Additional Information: full citation, abstract

Your old real-time operating system made you do a lot for yourself as a driver author. Take advantage of the facilities Linux offers and clean up some spaghetti code while you're at it.

3 The Flux OSKit: a substrate for kernel and language research 

Bryan Ford, Godmar Back, Greg Benson, Jay Lepreau, Albert Lin, Olin Shivers

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5

Full text available:  pdf(2.47 MB) Additional Information: full citation, references, citations, index terms

4 Device driver programming in a transactional DSM operating system 

T. Bindhammer, R. Göckelmann, O. Marquardt, M. Schöttner, M. Wende, P. Schulthess

January 2002 **Australian Computer Science Communications , Proceedings of the seventh Asia-Pacific conference on Computer systems architecture - Volume 6**, Volume 24 Issue 3

Full text available:  pdf(750.85 KB) Additional Information: full citation, abstract, references, index terms

The Plurix project implements an object-oriented operating system (OS) for PC clusters. Network communication is implemented via the distributed shared memory (DSM) paradigm. Memory consistency is maintained by restartable transactions and an optimistic synchronization scheme, that have been used in database technology in the past. Originally, DSM systems were built to support parallel algorithms, but using DSM as a

foundation for a general purpose OS offers interesting perspectives in designing ...

Keywords: distributed shared memory, driver development, operating system, optimistic concurrency control

5 Virtual machines: Scale and performance in the Denali isolation kernel

Andrew Whitaker, Marianne Shaw, Steven D. Gribble

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Full text available:  [pdf\(1.91 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper describes the Denali isolation kernel, an operating system architecture that safely multiplexes a large number of untrusted Internet services on shared hardware.

Denali's goal is to allow new Internet services to be "pushed" into third party infrastructure, relieving Internet service authors from the burden of acquiring and maintaining physical infrastructure. Our isolation kernel exposes a virtual machine abstraction, but unlike conventional virtual machine monitors, Denali does not ...

6 Focus issue on legacy information systems and business process engineering: banking on the old technology: understanding the organisational context of "Legacy" issues

Dave Randall, John Hughes, Jon O'Brien, Tom Rodden, Mark Rouncefield, Ian Sommerville, Peter Tolmie

July 1999 **Communications of the AIS**

Full text available:  [pdf\(155.92 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

7 Session: Migrating legacy engineering applications to Java

Tom Dickens

November 2002 **OOPSLA 2002 Practitioners Reports**

Full text available:  [pdf\(2.31 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Boeing Company, like many other engineering-centric companies, has a large base of legacy applications written in FORTRAN and C. In today's computing environment, maintaining and evolving these applications is becoming difficult. One such Boeing application, the Aero Grid and Paneling System (AGPS), is a 3D-geometry surface modeling tool. In the fall of 2001 we completed the migration of the AGPS source code from 300,000 lines of mixed C and FORTRAN to 150,000 lines of 100% Java. The migrati ...

Keywords: C, FORTRAN, Java, conversion, legacy, portability

8 Posters & demos: Multimodal optimizations: can legacy systems defeat them?

John Harper, Donal Sweeney

November 2001 **Proceedings of the 2001 workshop on Perceptive user interfaces**

Full text available:  [pdf\(3.03 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes several results obtained during the implementation and evaluation of a speech complemented interface to a vehicle monitoring system. A speech complemented interface is one wherein the operations at the interface (keyboard and mouse, for instance) are complemented by operator speech not directly processed by the computer. Such systems from an interface perspective have 'low brow' multimodal characteristics. Typical domains include vehicle tracking applications (taxis, buses, ...

Keywords: legacy systems, mental models, multimodal interfaces, task analysis, user modeling

9 Making operating systems more robust: Improving the reliability of commodity operating systems

Michael M. Swift, Brian N. Bershad, Henry M. Levy

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Full text available:  [pdf\(262.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Despite decades of research in extensible operating system technology, extensions such as device drivers remain a significant cause of system failures. In Windows XP, for example, drivers account for 85% of recently reported failures. This paper describes Nooks, a *reliability subsystem* that seeks to greatly enhance OS reliability by isolating the OS from driver failures. The Nooks approach is practical: rather than guaranteeing complete fault tolerance through a new (and incompatible) OS ...

Keywords: I/O, device drivers, protection, recovery, virtual memory

10 Technical session 7: multimedia systems: Implementation and evaluation of EXT3NS multimedia file system

Baik-Song Ahn, Sung-Hoon Sohn, Chei-Yol Kim, Gyu-Il Cha, Yun-Cheol Baek, Sung-In Jung, Myung-Joon Kim

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available:  [pdf\(524.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The EXT3NS is a scalable file system designed to handle video streaming workload in large-scale on-demand streaming services. It is based on a special H/W device, called Network-Storage card (NS card), which aims at accelerating streaming operation by shortening the data path from storage device to network interface. The design objective of EXT3NS is to minimize the delay and the delay variance of I/O request in the sequential workload on NS card. Metadata structure, file organization, metadata ...

Keywords: file system, multimedia, streaming, video server

11 Service infrastructure and network management: Architecture and techniques for diagnosing faults in IEEE 802.11 infrastructure networks

Atul Adya, Paramvir Bahl, Ranveer Chandra, Lili Qiu

September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking**

Full text available:  [pdf\(303.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The wide-scale deployment of IEEE 802.11 wireless networks has generated significant challenges for Information Technology (IT) departments in corporations. Users frequently complain about connectivity and performance problems, and network administrators are expected to diagnose these problems while managing corporate security and coverage. Their task is particularly difficult due to the unreliable nature of the wireless medium and a lack of intelligent diagnostic tools for determining the cause ...

Keywords: IEEE 802.11, disconnected clients, fault detection, fault diagnosis, infrastructure wireless networks, rogue APs

12 Migration: The design and implementation of Zap: a system for migrating computing environments

Steven Osman, Dinesh Subhraveti, Gong Su, Jason Nieh

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue 5

Full text available:  pdf(2.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

We have created Zap, a novel system for transparent migration of legacy and networked applications. Zap provides a thin virtualization layer on top of the operating system that introduces pods, which are groups of processes that are provided a consistent, virtualized view of the system. This decouples processes in pods from dependencies to the host operating system and other processes on the system. By integrating Zap virtualization with a checkpoint-restart mechanism, Zap can migrate a pod of p ...

13 [Disco: running commodity operating systems on scalable multiprocessors](#) 

Edouard Bugnion, Scott Devine, Mendel Rosenblum

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5

Full text available:  pdf(2.30 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

14 [Computing curricula 2001](#) 

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available:  pdf(613.63 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

 html(2.78 KB)

15 [Same words, different meanings: are basic IS/IT concepts our self-imposed Tower of Babel?](#) 

Steven Alter

May 2000 **Communications of the AIS**

Full text available:  pdf(349.97 KB) Additional Information: [full citation](#), [references](#), [citations](#)

16 [Kernels: Cooperative I/O: a novel I/O semantics for energy-aware applications](#) 

Andreas Weissel, Björn Beutel, Frank Bellosa

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Full text available:  pdf(1.60 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper we demonstrate the benefits of application involvement in operating system power management. We present Coop-I/O, an approach to reduce the power consumption of devices while encompassing all levels of the system---from the hardware and OS to a new interface for cooperative I/O that can be used by energy-aware applications. We assume devices which can be set to low-power operation modes if they are not accessed and where switching between modes consumes additional energy, e.g. devi ...

17 [The mobile people architecture](#) 

Petros Maniatis, Mema Roussopoulos, Ed Swierk, Kevin Lai, Guido Appenzeller, Xinhua Zhao,

Mary Baker

July 1999 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 3 Issue 3

Full text available:  pdf(946.60 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

People are the outsiders in the current communications revolution. Computer hosts, pagers, and telephones are the addressable entities throughout the Internet and telephony systems. Human beings, however, still need application-specific tricks to be identified, like email addresses, telephone numbers, and ICQ IDs. The key challenge today is to find people and communicate with them personally, as opposed to communicating merely with their possibly inaccessible machines---cell phones that are turn ...

18 [Deployment and testbeds: Enhancement of a WLAN-based internet service in Korea](#) 

Youngkyu Choi, Jeongyeup Paek, Sunghyun Choi, Go Woon Lee, Jae Hwan Lee, Hanwook Jung
September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services in WLAN hotspots**

Full text available:  [pdf\(774.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A wireless LAN (WLAN)-based Internet service, called NESPOT, of Korea Telecom (KT), the biggest telecommunication and Internet service company in Korea, has been operational since early 2002. As the numbers of subscribers and deployed access points (APs) increase, KT has been endeavoring to improve its service quality as well as the network management. In this paper, we introduce a joint effort between Seoul National University (SNU) and KT to achieve it. We have been addressing two major issues ...

Keywords: IEEE 802.11, LAN, hotspot service, wireless internet service provider (WISP)

19 Special issue on wireless extensions to the internet: A cooperative approach to user mobility 

Robin Kravets, Casey Carter, Luiz Magalhães

October 2001 **ACM SIGCOMM Computer Communication Review**, Volume 31 Issue 5

Full text available:  [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

We propose a networking model that treats a user's set of personal devices as a MOBILE grouPEd Device, a MOPED, which appears as a single entity to the rest of the Internet. All communication for a user is directed to this point of presence. As the user moves through different environments, the devices cooperate to provide the user with access to all available communication resources. We present the basic networking functionality necessary to enable the operation of MOPEDs and their integrati ...

20 Resource partitioning in general purpose operating systems: experimental results in Windows NT 

D. G. Waddington, D. Hutchison

October 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 4

Full text available:  [pdf\(1.56 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The principal role of the operating system is that of resource management. Its task is to present a set of appropriate services to the applications and users it supports. Traditionally, general-purpose operating systems, including Windows NT, federate resource sharing in a fair manner, with the predominant goal of efficient resource utilisation. As a result the chosen scheduling algorithms are not suited to applications that have stringent Quality-of-Service (QoS) and resource management require ...

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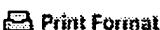
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1 A plug and play approach to data acquisition

Toledo, J.; Muller, H.; Buytaert, J.; Bal, F.; David, A.; Guirao, A.; Mora, F.J.; Nuclear Science, IEEE Transactions on , Volume: 49 , Issue: 3 , June 2002 Pages:1190 - 1194

[\[Abstract\]](#) [\[PDF Full-Text \(219 KB\)\]](#) IEEE JNL

2 Using device driver software in SCADA systems

Wu Sitao; Qian Qingquan; Power Engineering Society Winter Meeting, 2000. IEEE , Volume: 3 , 23-27 Jan. 2000 Pages:2046 - 2049 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(236 KB\)\]](#) IEEE CNF

3 Media access control development platform for wireless LANs

Ganz, A.; Savvides, A.; Ganz, Z.; Electronics, Circuits and Systems, 1999. Proceedings of ICECS '99. The 6th IEEE International Conference on , Volume: 1 , 5-8 Sept. 1999 Pages:105 - 108 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(224 KB\)\]](#) IEEE CNF

4 CPU replacement on legacy test systems [for complex avionics]

Pace, T.J.; AUTOTESTCON '99. IEEE Systems Readiness Technology Conference, 1999. IEEE , 30 Aug.-2 Sept. 1999 Pages:275 - 288

[\[Abstract\]](#) [\[PDF Full-Text \(988 KB\)\]](#) IEEE CNF

5 The use of computer language compilers in legacy code migration

Chisolm, K.C.; Lisonbee, J.C.;

AUTOTESTCON '99. IEEE Systems Readiness Technology Conference, 1999.
IEEE , 30 Aug.-2 Sept. 1999
Pages:137 - 145

[\[Abstract\]](#) [\[PDF Full-Text \(452 KB\)\]](#) [IEEE CNF](#)

6 Successful migration of a legacy system to an open architecture

Hardenburg, G.L.;
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IEEE , 30 Aug.-2 Sept. 1999
Pages:405 - 410

[\[Abstract\]](#) [\[PDF Full-Text \(312 KB\)\]](#) [IEEE CNF](#)

7 Reducing legacy ATE system sustainment costs through modern system engineering architecture concepts

Tjoland, W.; Brennan, A.; McPhee, C.D.;
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[\[Abstract\]](#) [\[PDF Full-Text \(148 KB\)\]](#) [IEEE CNF](#)

8 Applying VXI technology to DC power supply programming resistors

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[\[Abstract\]](#) [\[PDF Full-Text \(104 KB\)\]](#) [IEEE CNF](#)

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Pages:147 - 149

[\[Abstract\]](#) [\[PDF Full-Text \(200 KB\)\]](#) [IEEE CNF](#)

10 Constrained feeds for limited scan arrays

DuFort, E.;
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Pages:407 - 413

[\[Abstract\]](#) [\[PDF Full-Text \(584 KB\)\]](#) [IEEE JNL](#)

11 A plug&play approach to data acquisition

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Nuclear Science Symposium Conference Record, 2001 IEEE , Volume: 1 , 4-10 Nov. 2001
Pages:506 - 510 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(1138 KB\)\]](#) [IEEE CNF](#)

12 Deferred segmentation for wire-speed transmission of large TCP frames

over standard GbE networks

Bilic, H.; Birk, Y.; Chirashnya, I.; Machulsky, Z.;
Hot Interconnects 9, 2001. , 22-24 Aug. 2001
Pages:81 - 85

[\[Abstract\]](#) [\[PDF Full-Text \(440 KB\)\]](#) [IEEE CNF](#)

13 Location-based VAS: killer applications for the next-generation mobile Internet

Mihovska, A.; Pereira, J.M.;
Personal, Indoor and Mobile Radio Communications, 2001 12th IEEE International Symposium on , Volume: 1 , 30 Sept.-3 Oct. 2001
Pages:B-50 - B-54 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(474 KB\)\]](#) [IEEE CNF](#)

14 Digital test program portability to VXI-based testing environments

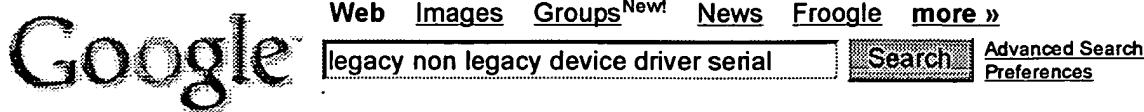
Wright, R.G.; Keenan, E.; Rajan, M.; Urchasko, J.; Kirkland, L.V.;
AUTOTESTCON '99. IEEE Systems Readiness Technology Conference, 1999.
IEEE , 30 Aug.-2 Sept. 1999
Pages:289 - 292

[\[Abstract\]](#) [\[PDF Full-Text \(192 KB\)\]](#) [IEEE CNF](#)

15 Instrument driver design

Lan Vuu; Khan, A.;
AUTOTESTCON '99. IEEE Systems Readiness Technology Conference, 1999.
IEEE , 30 Aug.-2 Sept. 1999
Pages:129 - 131

[\[Abstract\]](#) [\[PDF Full-Text \(140 KB\)\]](#) [IEEE CNF](#)

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Workaround to install NE2000 / 3C509 Non Plug&Play ISA Network ...

... under "Network Adapter" the "Etherlink III (3C509/509B) in Legacy...". ... but since Windows could not detect with such non-Plug&Play devices the hardware ...

www.windowsnetworking.com/j_helmig/wxpne2k.htm - 38k - [Cached](#) - [Similar pages](#)

Linux.com - Serial HOWTO: Multiport Serial Boards/Cards/Adapters

... the device file system (devfs), then the device driver should create the device name and ... Otherwise for a legacy (non-devfs), an installation script may ...

distributions.linux.com/howtos/Serial-HOWTO-6.shtml - 36k - [Cached](#) - [Similar pages](#)

USING SCSI AND SERIAL DEVICES WITH CURRENT APPLE COMPUTERS by D' ...

... ComputerArtCont.html APPLE DOES NOT SUPPORT LEGACY SCSI AND ... but the device's driver says no device is attached ... Adaptec's the 2930 and the earlier non-BIOS 2906 ...

www.dlynnwaldron.com/legacySCSI.html - 15k - [Cached](#) - [Similar pages](#)

Modem-HOWTO: Serial Port Devices /dev/ttys2, (or /dev/ttys/2) etc.

... Others use devfs but have the old legacy names linked ... the new names for the old (non-devfs) system ... Device names in the /dev directory are created automatically ...

ldp.indosite.co.id/HOWTO/Modem-HOWTO-9.html - 9k - [Cached](#) - [Similar pages](#)

drivermagic.co.nz: README.TXT

... function automatically if any one of legacy ports is ... 300 11 1200 150 12 300 37.5

Non BIOS standard ... ports can be supported by WINDOWS 3.1 default device driver. ...

drivermagic.co.nz/p/nph-display.php?a=2284.2 - 24k - [Cached](#) - [Similar pages](#)

Intel RC440BX (Rochester) Motherboard

... Driver Listings: (Non-Standard). ... SB AudioPCI64V Legacy Device, [Hardware Version

N/A ... System Devices, Intel 82371 PCI to ISA bridge (ISA Mode), [Hardware Version 002 ...

www.fujitsu-siemens.co.uk/rl/servicesupport/techsupport/Boards/Motherboards/Intel/RC440BX/RC440BX.htm - 34k -

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USB-To-Serial Adapter links PC to any legacy device., BAFOQuality ...

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S27	0	different same (input adj2 device) same (device adj2 driver) same USB	USPAT	OR	ON	2003/11/10 18:49
S28	34	(input adj2 device) same (device adj2 driver) same USB	USPAT	OR	ON	2003/11/10 18:49
S29	489	(device adj driver) same serial	USPAT	OR	ON	2003/11/13 16:40
S30	36	((device adj driver) same serial) and legacy\$	USPAT	OR	ON	2003/11/13 16:41
S31	50	((device adj driver) same serial) same (input adj2 device)	USPAT	OR	ON	2003/11/13 16:52
S32	0	((handl\$3 or manag\$3) near any near (input adj device))	USPAT	OR	ON	2003/11/13 16:53
S33	0	((handl\$3 or manag\$3) near "any" near (input adj device))	USPAT	OR	ON	2003/11/13 16:53
S34	132	((handl\$3 or manag\$3) near (input adj device))	USPAT	OR	ON	2003/11/13 16:53

S35	13	((handl\$3 or manag\$3) near (input adj device))) same serial	USPAT	OR	ON	2003/11/13 16:54
S36	522	(manag\$3 or handl\$3) near2 (device adj drivers)	USPAT	OR	ON	2003/11/13 16:54
S37	14	((manag\$3 or handl\$3) near2 (device adj drivers)) same (input adj device)	USPAT	OR	ON	2003/11/13 16:59
S38	572	between near3 (device adj driver)	USPAT	OR	ON	2003/11/13 16:59
S39	29	(between near3 (device adj driver)) same (input adj2 device)	USPAT	OR	ON	2003/11/13 17:17
S40	13	"5442376".URPN.	USPAT	OR	OFF	2003/11/13 17:01
S41	7612	(handl\$3 or manag\$3 or controll\$3) near5 (input adj2 device)	USPAT	OR	ON	2003/11/13 17:19
S42	481	((handl\$3 or manag\$3 or controll\$3) near5 (input adj2 device)).ab.	USPAT	OR	ON	2003/11/13 17:18
S43	5	((handl\$3 or manag\$3 or controll\$3) near5 (input adj2 device)).ab.) and ((device adj driver) same (input adj device))	USPAT	OR	ON	2003/11/13 17:18
S44	12393	(handl\$3 or manag\$3 or control) near5 (input adj2 device)	USPAT	OR	ON	2003/11/13 17:27
S45	1	"6081855".pn.	USPAT	OR	ON	2003/11/13 17:33
S46	19	manag\$3 near5 legacy near2 device	USPAT	OR	ON	2003/11/13 17:44
S47	0	(manag\$3 near5 legacy near2 device) same (input adj device)	USPAT	OR	ON	2003/11/13 17:34
S48	597	(manag\$3 near5 (device adj driver))".abs"	USPAT	OR	ON	2003/11/13 17:47
S49	1	"6496893".pn.	USPAT	OR	ON	2003/11/13 17:46
S50	11	(manag\$3 near2 (device adj driver)).ab.	USPAT	OR	ON	2003/11/13 17:50
S51	15	(handl\$3 near2 (device adj driver)).ab.	USPAT	OR	ON	2003/11/13 17:51
S52	48	(control\$3 near2 (device adj driver)).ab.	USPAT	OR	ON	2003/11/13 17:52
S53	8	((control\$3 near2 (device adj driver)).ab.) and legacy	USPAT	OR	ON	2003/11/13 17:52

S54	0	719/321.ccls. and (5\$legacy\$5 near8 driver)	USPAT	OR	OFF	2004/03/30 18:57
S55	3	719/321.ccls. and (legacy\$5 near8 driver)	USPAT	OR	OFF	2004/03/30 20:35
S56	2	719/321.ccls. and (legacy\$5 near8 input)	USPAT	OR	OFF	2004/03/30 20:34
S57	1	719/321.ccls. and (legacy\$5 near8 input)	US-PGPUB ; EPO; JPO	OR	OFF	2004/03/30 20:34
S58	5	719/321.ccls. and (legacy\$5 near8 driver)	US-PGPUB ; EPO; JPO	OR	OFF	2004/03/30 22:35
S59	2	719/321.ccls. and (manag\$3 near8 (USB or IEEE\$6 or Firewire or iLink))	US-PGPUB ; EPO; JPO	OR	OFF	2004/03/30 22:36
S60	6	719/321.ccls. and (manag\$3 near8 (USB or IEEE\$6 or Firewire or iLink))	US-PGPUB ; USPAT; EPO; JPO	OR	OFF	2004/03/30 22:41
S61	861	(manag\$3 near8 (USB or IEEE\$6 or Firewire or iLink))	US-PGPUB ; USPAT; EPO; JPO	OR	OFF	2004/03/30 22:41
S62	59	(manag\$3 near8 (USB or IEEE\$6 or Firewire or iLink)) same driver	US-PGPUB ; USPAT; EPO; JPO	OR	OFF	2004/03/30 22:41
S63	15	(manag\$3 near8 (USB or IEEE\$6 or Firewire or iLink)) same driver same serial	US-PGPUB ; USPAT; EPO; JPO	OR	OFF	2004/03/30 22:42
S64	0	(manag\$3 near8 (USB or IEEE\$6 or Firewire or iLink)) same driver same legacy	US-PGPUB ; USPAT; EPO; JPO	OR	OFF	2004/03/30 22:43
S65	13	(manag\$3 near8 (USB or IEEE\$6 or Firewire or iLink)) same driver and legacy	US-PGPUB ; USPAT; EPO; JPO	OR	OFF	2004/03/30 22:56
S66	1	manag\$3 near8 (HID or Human adj input adj device) near8 legacy	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2004/03/30 22:57
S67	0	both near8 (HID or Human adj input adj device) near8 legacy	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2004/03/30 22:57
S68	5	(HID or Human adj input adj device) same legacy	US-PGPUB ; USPAT; EPO; JPO	OR	ON	2004/03/30 22:58
S69	1	("6311228").PN.	USPAT; USOCR	OR	OFF	2004/03/31 09:11
S70	7	"6311228".URPN.	USPAT	OR	OFF	2004/03/31 08:59
S71	0	HDI near8 (non adj legacy)	USPAT	OR	OFF	2004/03/31 09:11

S72	0	(HDI or (Human adj input adj device) or USB) near8 (non adj legacy)	USPAT	OR	OFF	2004/03/31 09:12
S73	2	(HDI or (Human adj input adj device) or USB) near8 (non adj legacy)	US-PGPUB ; USPAT ; EPO ; JPO	OR	ON	2004/03/31 09:40
S74	1	("6081855").PN.	USPAT ; USOCR	OR	OFF	2004/03/31 11:46
S75	1	("6643721").PN.	USPAT ; USOCR	OR	OFF	2004/03/31 11:47
S76	1	foreground near8 application near8 (input adj device)	USPAT	OR	ON	2004/03/31 11:47